

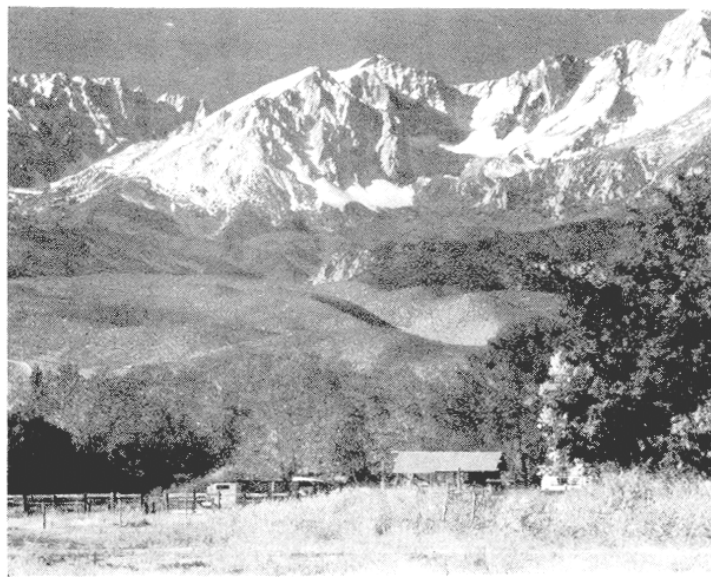
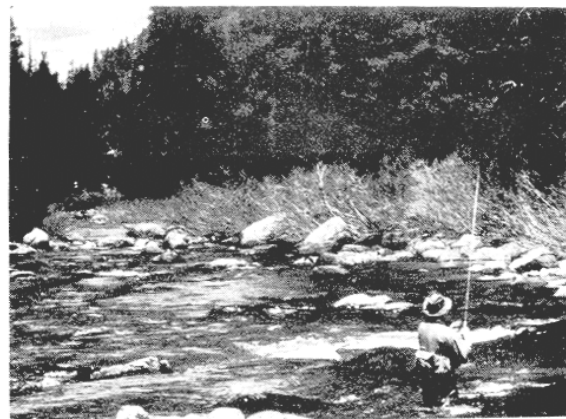
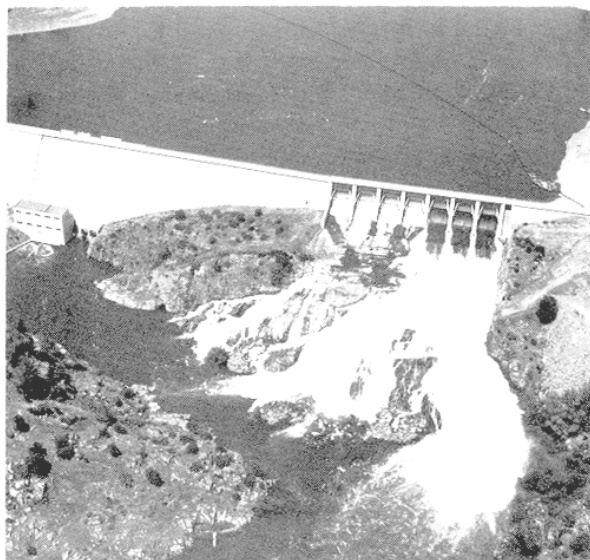
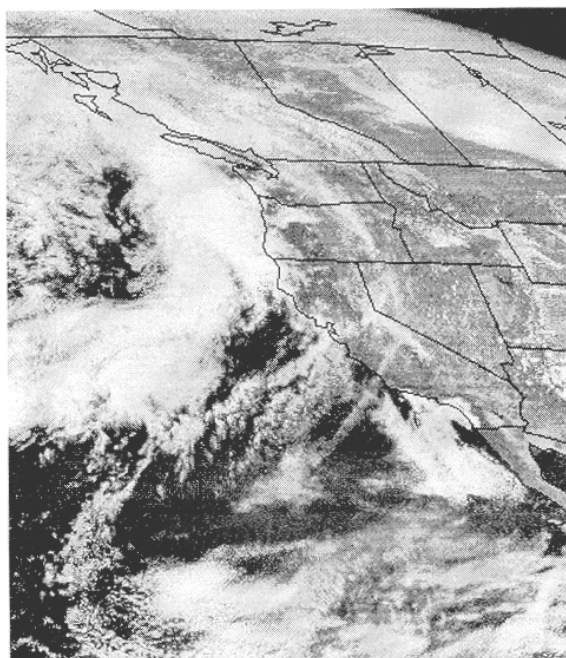


California Water Supply Outlook

March 2003

Compiled by the
Division of Flood Management,
Flood Operations and Hydrology Branches

Climate and Weather . . . Snowpack . . . Streamflow . . . Reservoir Storage



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Prepared by the staff of the:

Hydrology and Flood Operations Office

The data in this publication are preliminary and may be subject to revision.

Water Supply Outlook used to be published on a semimonthly basis by the Hydrology and Flood Operation Office of the Division of Flood Management, and provided a statewide summary of current hydrologic conditions.

Due to the increasing cost of publishing and mailing, as well as a desire by the public for more timely and additional information, Water Supply Outlook will now only be available through the Internet. This product contains a series of links to html, text, and pdf format reports, which will allow more frequent updates of data and information. This is a "work-in-progress" and will be improved as funds and time allow.

For more details, contact:

Water Supply Outlook
Division of Flood Management
Department of Water Resource
P.O. Box 219000
Sacramento, CA 95821-9000

Also of interest, the California Cooperative Snow Surveys, a unit of the Division of Flood Management, publishes Bulletin 120, ***Water Conditions in California:***

<http://cdec.water.ca.gov/snow/>

This bulletin is published monthly by the Department of Water Resources from February 1 to May 1, with a final Fall Report at the end of the water year. Bulletin 120 provides forecasts of unimpaired runoff for California rivers, along with precipitation, snowpack, and reservoir storage data. To receive Bulletin 120, contact the Department of Water Resources Mailing List Coordinator:

Department of Water Resources
The Resources Agency
State of California
P.O. Box 942836
Sacramento, CA 94236-0001

916-653-0995

Executive Update

Hydrologic Conditions in California

03/25/2003

Snowpack Water Content			
Region	Water Content (in inches)	% Avg to Date	% April 1 Avg (1)
Northern Sierra	25.50	91	91
Central Sierra	22.10	73	72
Southern Sierra	17.70	69	68
Statewide	21.70	76	76

(1) April 1 is the date of normal maximum accumulation for the season.

Northern Sierra Precipitation Accumulation (2)	
Rainfall & Snow Water Content (in inches)	
Water Year Amount to Date (since Oct. 1,2002):	44.35
Average to Date:	40.00
Percent of Average to Date:	111 %
Average for the Water Year (Oct. 1 through Sep. 30)	50.00
Percent of Average for the Water Year(Oct. 1 through Sep. 30)	89 %

(2) Northern Sierra (Sacramento, Feather, Yuba, and American River Basins)

Selected Cities Precipitation Accumulation As of 03/24/2003					
	Jul 1 to Date 2002 - 2003 (in inches)	% Avg	Jul 1 to Date 2001 - 2002 (in inches)	% Avg	% Avg Jul 1 to Jun 30 2002 - 2003
Eureka	39.04	123	37.41	117	102
Redding	29.55	106	26.79	96	88
Sacramento	12.01	69	15.12	87	60
San Jose	11.47	88	10.16	78	76
Fresno	6.24	66	6.42	68	55
Bakersfield	4.58	84	3.21	59	70
Los Angeles	14.69	109	4.26	32	97
San Diego	8.91	96	2.39	26	82

Key Reservoir Storage As of 03/24/2003 midnight							
Reservoir	River	Storage (in 1000 AF)	Avg Storage (in 1000 AF)	% Average	Capacity (in 1000 AF)	% Capacity	Flood Control (3) Encroachment (in 1000 AF)
Trinity Lake	Trinity	2,013	1,937	104	2,448	82	---
Shasta Lake	Sacramento	3,979	3,621	110	4,552	87	-221

Lake Oroville	Feather	2,533	2,738	93	3,538	72	-479
New Bullards Bar Res	Yuba	751	669	112	966	78	-45
Folsom Lake	American	580	602	96	977	59	-56
New Melones Res	Stanislaus	1,426	1,444	99	2,420	59	-563
Don Pedro Res	Tuolumne	1,426	1,444	99	2,030	70	-264
Lake McClure	Merced	382	558	68	1,025	37	-323
Millerton Lake	San Joaquin	452	347	130	520	87	-46
Pine Flat Res	Kings	423	564	75	1,000	42	-465
Isabella	Kern	167	182	91	568	29	-117
San Luis Res	(Offstream)	1,926	1,834	105	2,039	94	---

(3)	Temporary encroachment into seasonally reserved flood storage space; requirements can vary considerably on a daily basis due to numerous variables: rainfall amounts, anticipated snowmelt, time of year, soil moisture, etc.
-----	---

Comments

A lighter spring storm Sat-Sun Mar 22-23 caused minor rises in Northern and Central Calif streams. Otherwise, dry weather prevailed as spring brought gradually warmer temperatures throughout the state. The current long-term forecast shows chances of light precipitation in Northern Calif Tue-Wed Mar 25-26, but otherwise dry and warm. Snow levels in the Northern Sierra are forecast to be near 5000' Wednesday. The next update will be issued about Apr 2 unless there are significant hydrologic changes.

California Water Conditions Synopsis for February 2003

February continued the pattern experienced last season with a good start to the water year fading as the season progressed. Precipitation in northern and central California was only about one half of normal during February. Snowpack water content increased only slightly during the month and has fallen below average in nearly all basins. Due to the dry weather since January, it is likely that river runoff will be below average this water year.

Precipitation during February was about 70 percent of average statewide due to very wet conditions in the South Coast and Colorado Desert regions. The cumulative statewide precipitation from October 1 to February 28 was 100 percent of average compared to 90 percent last year.

Snowpack water content increased less than 10 percent during February, much less than normal. The statewide snowpack was 80% of average on March 1, with a bias toward the North Coast & Lahontan regions. The accumulation has reached 70 percent of the April 1 average (the normal date of maximum accumulation).

Runoff during February was half of average, dropping cumulative runoff for the water year to 100 percent of average, still slightly more than last year. Runoff has been highest in the North Coast region. There was no high water during the month. The chance that water year runoff will exceed average has dropped to under 25% in the Sacramento region, 10% in the San Joaquin region and about 15% for the Tulare region.

Forecasts of April through July runoff, assuming normal weather for the remainder of the season, have dropped further below average at 75 percent overall. Water year forecasts, which include the higher early winter flows, are 85 percent of average. The runoff forecasts are highest in northern basins. As of March 1, the forecasted Sacramento River Index (SRI) was 85 percent of average, the Sacramento Valley Index (40-30-30 SVI) year type was 'below normal', and the San Joaquin Valley Index (60-20-20 SJI) year type was 'dry'.

Reservoir storage increased at less than an average pace during February. Overall storage was just under 100 percent of average on March 1, nearly the same as last year. Storage in most major California reservoirs remains well below winter flood control limits. On the Colorado River, storage in Lake Mead and Lake Powell is at a thirty year low.

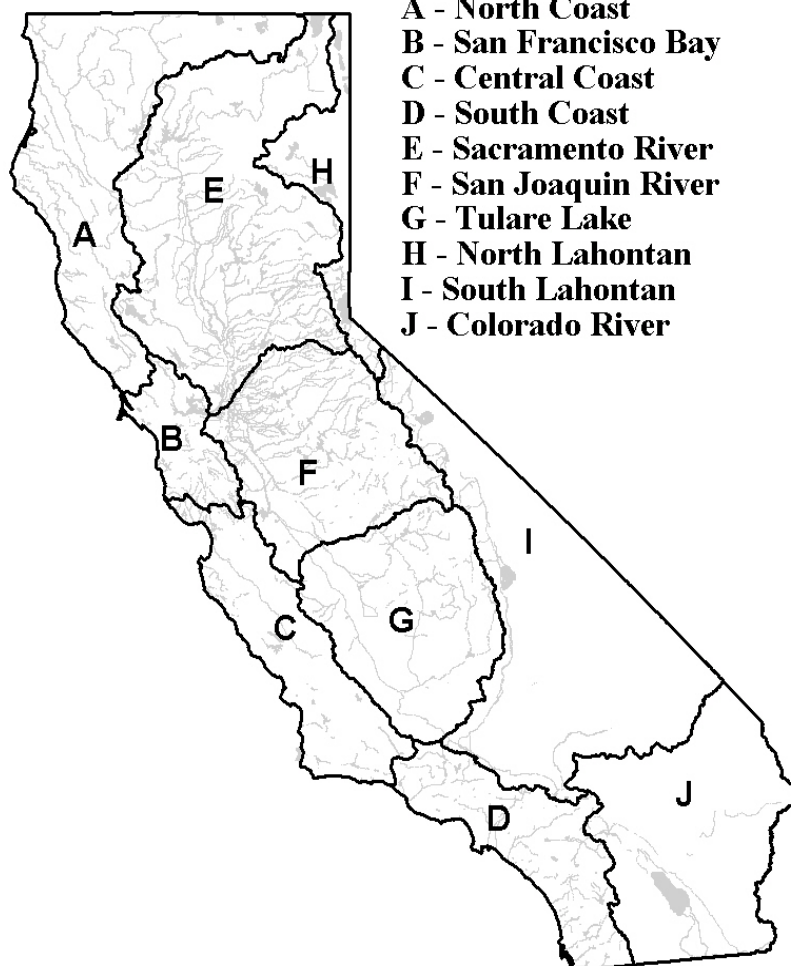
Summary of Water Conditions in California*

March 1, 2003

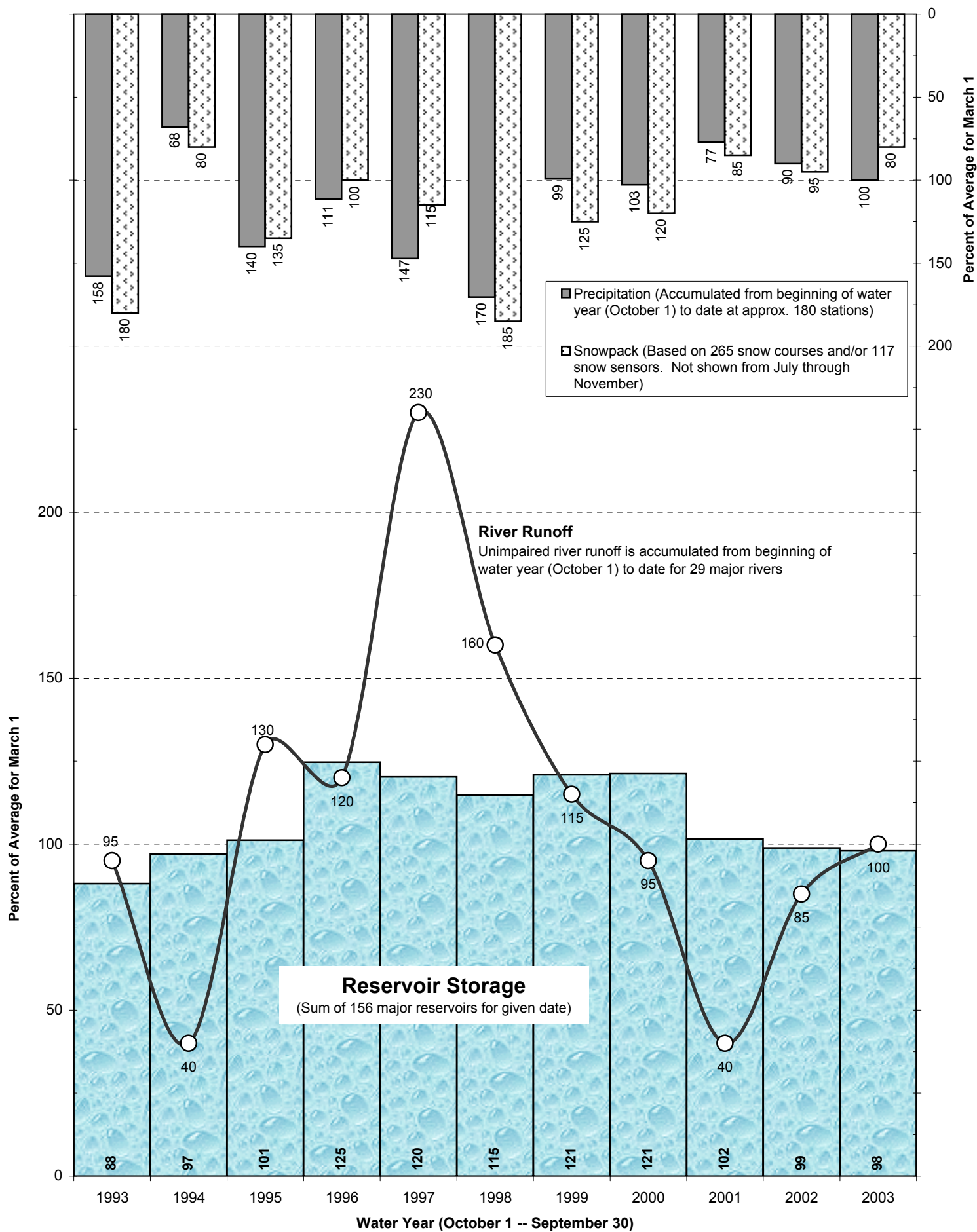
(percent of average)

Hydrologic Region	Precip Oct 1- date	Snow Water Content	Reservoir Storage Feb 28	Oct 1- date	Runoff Apr thru Jul Forecast	Water Year Forecast
North Coast	110	110	105	115	95	105
San Francisco Bay	115	---	95	115	---	---
Central Coast	95	---	95	90	---	---
South Coast	100	---	75	35	---	---
Sacramento River	100	80	105	100	75	85
San Joaquin River	85	75	100	60	70	65
Tulare Lake	100	70	75	90	65	70
North Lahontan	90	85	40	65	70	70
South Lahontan	120	90	95	70	85	75
Colorado River	75	---	---	---	---	---
Statewide	100	80	100	100	75	85
Last Year, Statewide:						
March 1, 2002	90	95	100	85	80	80

*From Bulletin 120-2-03, Water Conditions in California.

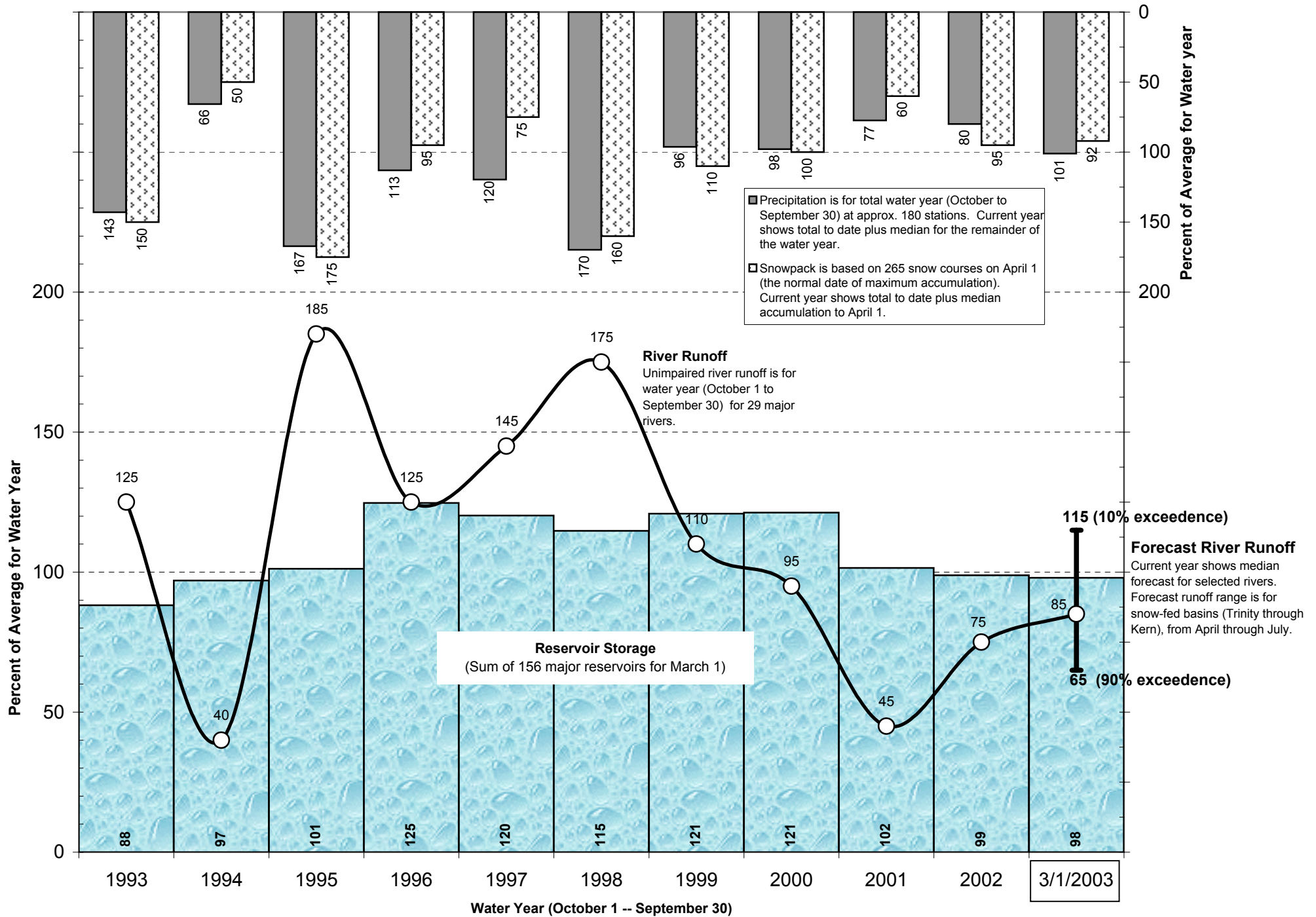


California Statewide Hydrologic Conditions as of March 1



California Statewide Water Year Hydrologic Totals

Current water year shows conditions as of March 1 with median future precipitation, snowpack, and runoff



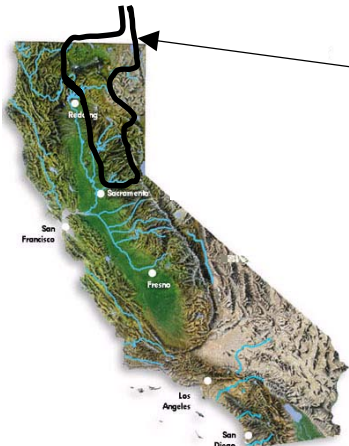
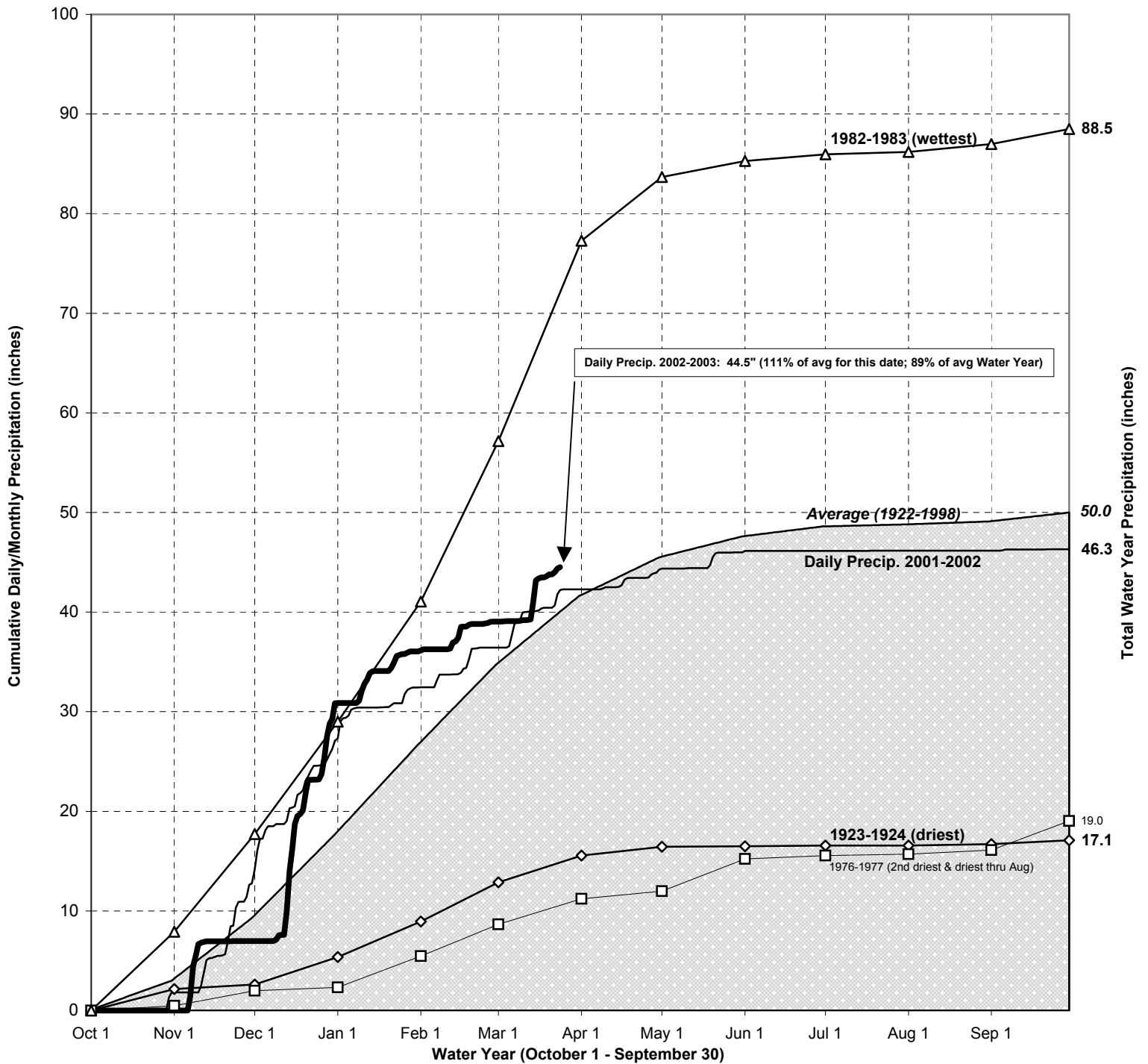
**Department of Water Resources
California Cooperative Snow Surveys
Seasonal Precipitation
in percent of average to date
October 1, 2002 through February 28, 2003**

Statewide 100%



Northern Sierra Precipitation: 8-Station Index*

March 24, 2003



*The average of eight precipitation stations serves as a generalized wetness index for the Sacramento River hydrologic region. It provides a representative sample of the region's major watersheds: the upper Sacramento, Feather, Yuba, and American rivers, which produce inflow to some of California's largest reservoirs--the source of much of our water supply. The eight stations are: Blue Canyon, Brush Creek RS, Mineral, Mount Shasta City, Pacific House, Quincy RS, Shasta Dam, Sierraville RS. Official seasonal runoff forecasts are based on many more measurements than this index, including snowpack and prior streamflow. These seasonal forecasts are a much more accurate measure of water supply.

Water Year 2003			
	Total	Avg	%Avg
Oct:	0.0"	3.0"	0%
Nov:	6.9"	6.3"	110%
Dec:	23.8"	8.4"	283%
Jan:	5.2"	9.0"	58%
Feb:	3.0"	8.0"	38%
Mar:	5.5"	6.9"	80%
Apr:	3.9"	3.9"	
May:	2.1"	2.1"	
Jun:	1.0"	1.0"	
Jul:	0.2"	0.2"	
Aug:	0.3"	0.3"	
Sept:	0.9"	0.9"	
Total:	44.5"	50.0"	89%

2003 WY Precipitation Summary

provided by the California Cooperative Snow Surveys

For the period Oct 1, 2002 to Feb 28, 2003 ([Text Version](#))

Report generated: 03/12/2003 13:57

Summary By River Basin						
Stations Reporting			Percent of Historic Average			
River Basin	Stations	Feb	Oct-Feb	Feb	Oct-Feb	Season
SMITH RIVER	1	1	1	62%	91%	66%
KLAMATH RIVER	6	5	5	38%	120%	86%
TRINITY RIVER	4	4	4	47%	108%	79%
EEL RIVER	6	3	3	56%	125%	90%
RUSSIAN RIVER	4	4	4	41%	117%	88%
NORTH SF BAY AREA	4	2	2	58%	121%	90%
SOUTH SF BAY AREA	2	2	2	53%	110%	81%
SANTA CRUZ - PAJARO RIVER	3	2	2	40%	102%	74%
SALINAS RIVER	5	4	4	56%	93%	68%
SANTA BARBARA AREA	4	3	3	81%	96%	70%
VENTURA - LOS ANGELES AREA	6	4	4	165%	100%	73%
SANTA ANA RIVER	6	5	5	161%	93%	65%
SAN DIEGO AREA	6	4	4	207%	101%	68%
SACRAMENTO VALLEY FLOOR	12	9	9	52%	116%	86%
UPPER SACRAMENTO RIVER	6	6	6	46%	106%	71%
FEATHER RIVER	10	9	9	37%	107%	75%
YUBA - BEAR RIVERS	8	7	6	38%	96%	67%
AMERICAN RIVER	9	10	10	41%	75%	52%
SAN JOAQUIN VALLEY FLOOR	7	7	6	57%	102%	71%
COSUMNES - MOKELUMNE RIVERS	3	3	3	46%	76%	53%

CALAVERAS - STANISLAUS RIVERS	2	1	1	49%	74%	52%
TUOLUMNE RIVER	5	5	5	41%	84%	57%
MERCED - FRESNO RIVERS	4	3	3	46%	83%	57%
SAN JOAQUIN RIVER	4	3	3	65%	95%	63%
TULARE LAKE BASIN FLOOR	7	5	5	98%	93%	64%
KINGS RIVER	2	2	2	76%	82%	56%
KAWEAH RIVER	9	6	6	73%	90%	61%
TULE RIVER	6	5	5	83%	105%	72%
KERN RIVER	4	4	4	93%	127%	89%
SURPRISE VALLEY - HONEY LAKE	4	4	4	42%	92%	60%
LAKE TAHOE - TRUCKEE RIVER	6	4	4	29%	88%	61%
CARSON - WALKER RIVERS	4	4	3	54%	86%	53%
MONO LAKE - OWENS RIVER	9	5	5	122%	163%	113%
DEATH VALLEY	2	1	1	322%	124%	70%
MOJAVE DESERT	4	3	3	219%	89%	59%
COLORADO DESERT	6	5	4	325%	75%	40%

Summary By Hydrologic Region

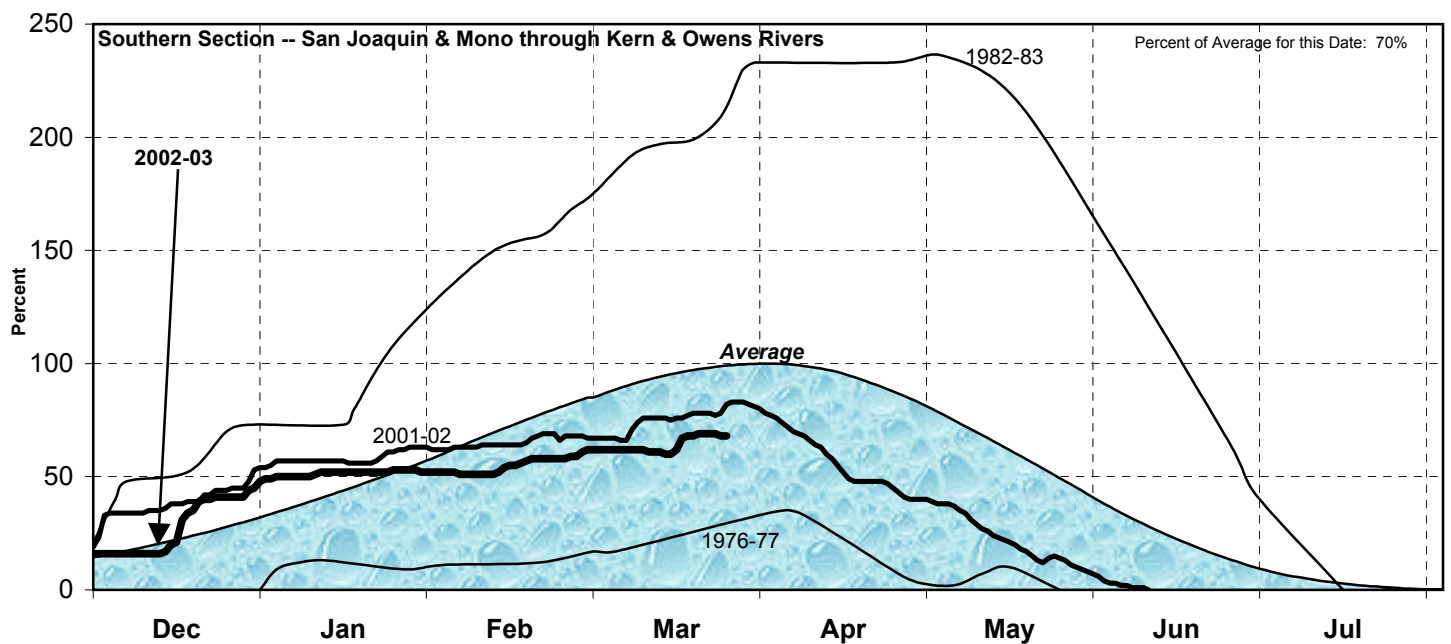
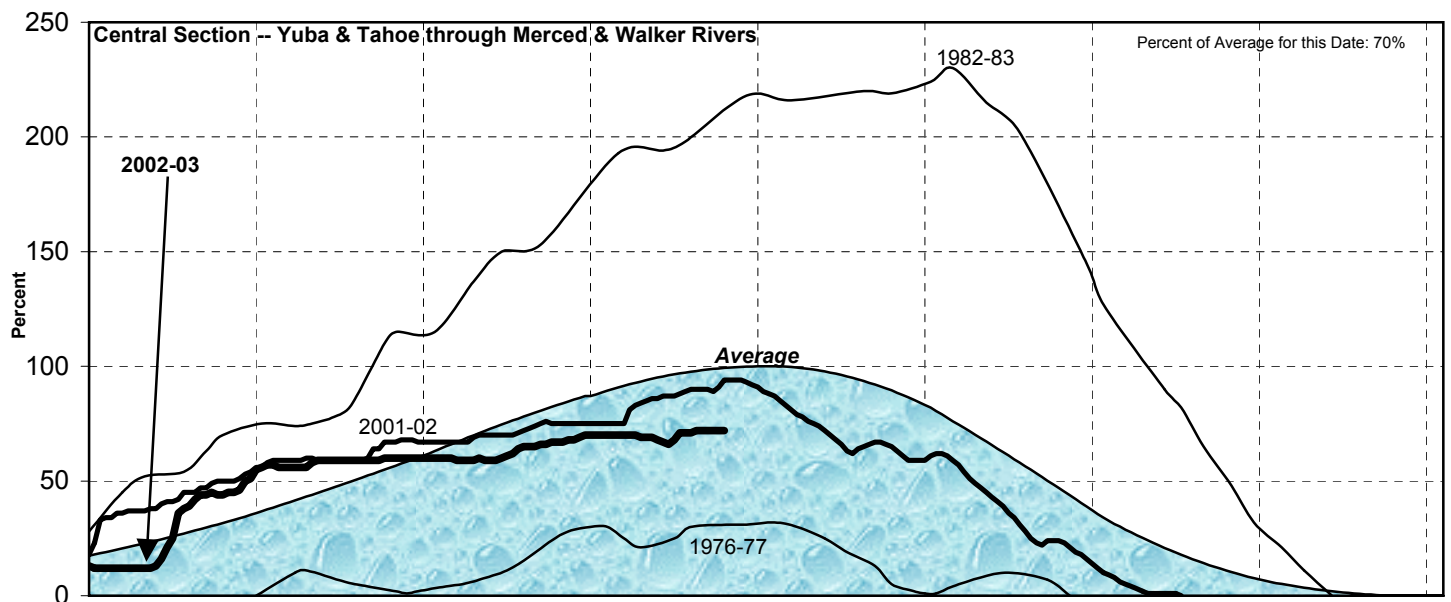
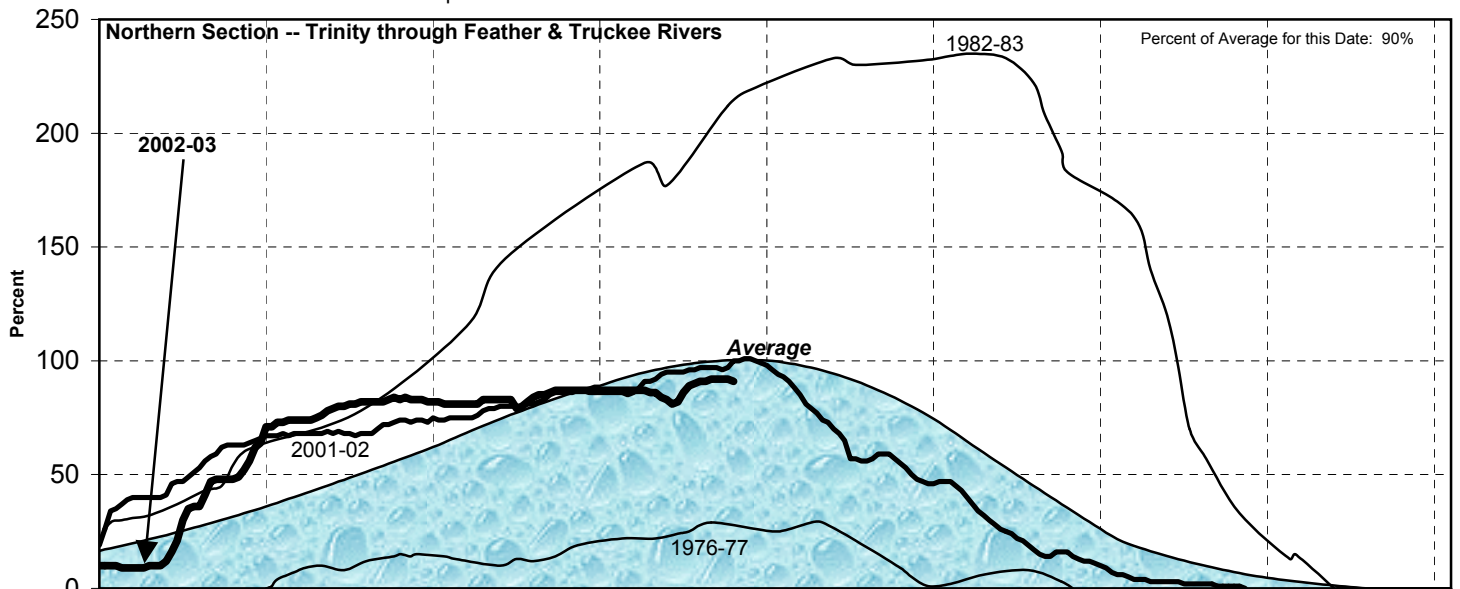
Historic Average		Basins Reporting			Stations Reporting			Percent of		
		Basins	Feb	Oct-Feb	Stations	Feb	Oct-Feb	Feb	Oct-Feb	Wat-Yr
NORTH COAST	0.27	5	5	5	21	17	17	48.5%	112%	82%
SAN FRANCISCO BAY	0.03	2	2	2	6	4	4	55.2%	116%	86%
CENTRAL COAST	0.06	3	3	3	12	9	9	59.1%	97%	71%
SOUTH COAST	0.06	3	3	3	18	13	13	177.7%	98%	69%

SACRAMENTO RIVER	0.26	5	5	5	45	41	40	42.7%	100%	70%
SAN JOAQUIN RIVER	0.12	6	6	6	25	22	21	50.6%	86%	59%
TULARE LAKE	0.07	5	5	5	28	22	22	84.7%	99%	68%
NORTH LAHONTAN	0.04	3	3	3	14	12	11	41.7%	89%	58%
SOUTH LAHONTAN	0.06	3	3	3	15	9	9	221.0%	125%	81%
COLORADO RIVER	0.03	1	1	1	6	5	4	325.3%	75%	40%
STATEWIDE weighted average	1.00	36	36	36	190	154	150	76.75%	101.98%	71.54%

California Snow Water Content, March 24, 2003

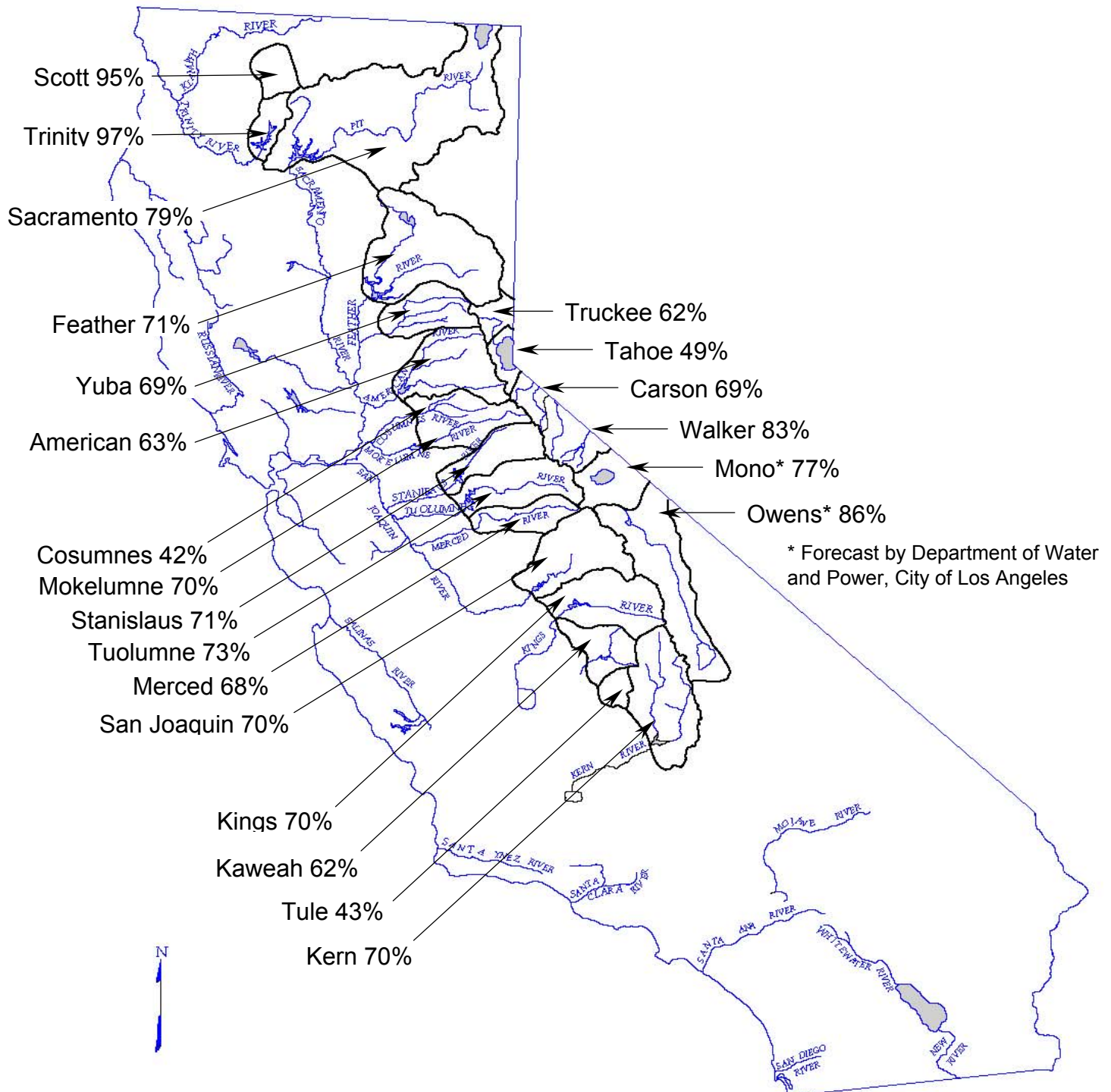
Percent of April 1 Average*

*April 1 is the normal date of maximum accumulation for the season.



Note: Water Year 1976-77 was the record minimum and Water Year 1982-83 was the record maximum.

Department of Water Resources
California Cooperative Snow Surveys
Forecast of April through July Unimpaired Runoff
in percent of historical average
March 1, 2003



Summary of Storage in Major Reservoirs

As of February 28, 2003 ([Text Version](#))

Report generated: 03/11/2003 08:49

STORAGE AS OF FEBRUARY 28							
Summary By Drainage Area							
Area	Number of Reservoirs	Total Capacity 1000 AF	Hist Ave 1000 AF	2002 1000 AF	2003 1000 AF	% Ave	% Cap
INTRASTATE							
NORTH COAST	7	3148.1	2300.6	2215.8	2410.8	105	77
SAN FRANCISCO BAY	14	546.7	378.5	351.9	358.9	95	66
CENTRAL COAST	6	970.3	647.1	742.6	627.6	97	65
SOUTH COAST	29	1989.4	1464.6	1282.0	1104.1	75	55
SACRAMENTO	43	16001.1	11362.2	11463.2	11678.6	103	73
SAN JOAQUIN	34	11439.9	7082.8	7334.0	7107.7	100	62
TULARE LAKE	6	2044.8	849.9	666.4	621.4	73	30
NORTH LAHONTAN	5	1072.0	576.7	334.5	243.4	42	23
SOUTH LAHONTAN	8	402.5	266.1	275.2	258.6	97	64
SUBTOTAL	152	37614.8	24928.5	24665.6	24411.1	98	65
INTERSTATE							
NORTH COAST	3	1494.4	698.5	605.1	554.2	79	37
COLORADO RIVER (1)	4	53590.4	42047.2	39085.5	32112.1	76	60
SUBTOTAL	7	55084.8	42745.7	39690.6	32666.3	76	59
TOTAL	159	92699.6	67674.2	64356.2	57077.4	84	62

STORAGE AS OF FEBRUARY 28							
Summary By River Basin							
Basin	Number of Reservoirs	Total Capacity 1000 AF	Hist Ave 1000 AF	2002 1000 AF	2003 1000 AF	% Ave	% Cap
KLAMATH R	3	1494.4	698.5	605.1	554.2	79	37
SHASTA R	1	50.0	33.2	19.8	36.0	108	72

TRINITY R	2	2462.4	1866.5	1771.3	1953.6	105	79
MAD R	1	51.8	49.7	49.0	48.4	97	93
EEL R	1	80.5	62.2	59.8	59.6	96	74
RUSSIAN R	2	503.4	289.1	315.9	313.2	108	62
NORTH BAY	5	105.8	89.7	105.8	105.8	118	100
SOUTH/EAST BAY	7	363.5	224.4	180.2	188.4	84	52
PENINSULA	2	77.4	64.3	65.9	64.6	100	83
SALINAS R	3	730.9	436.7	536.5	469.1	107	64
SANTA YNEZ R	2	198.7	176.4	168.7	125.5	71	63
OLD CR	1	40.7	34.1	37.4	33.0	97	81
VENTURA R/S CLARA R	5	838.7	699.7	695.9	639.2	91	76
S GABRIEL R/S ANA R	8	505.2	375.2	321.3	217.2	58	43
S MRGRTA/S LUIS REY	3	147.6	84.0	60.6	61.6	73	42
S DGTO R/S DIEGO R	8	300.3	169.6	138.4	121.9	72	41
SWTWTR R/OTAY R/CTWD	5	197.6	136.1	65.7	64.2	47	32
SACRAMENTO R	8	4967.4	3683.7	4178.0	3912.7	106	79
FEATHER R	11	5264.1	3727.5	3189.6	3420.4	92	65
YUBA R/BEAR R	9	1550.7	1012.5	1067.3	1147.5	113	74
AMERICAN R	9	1768.0	960.0	933.9	989.0	103	56
STONY CR	3	236.9	143.8	163.0	164.3	114	69
CACHE CR	2	614.0	455.9	436.5	458.1	100	75
PUTAH CR	1	1600.0	1378.8	1494.8	1586.5	115	99
EAST CONTRA COSTA	1	104.8	82.4	75.0	76.9	93	73
MOKELUMNE/COSUMNES R	5	850.0	505.9	467.9	527.3	104	62
CALAVERAS R	1	317.1	150.3	158.5	141.4	94	45
STANISLAUS R	7	2873.0	1600.3	1738.9	1614.6	101	56
TUOLUMNE R	6	2762.5	1725.1	1844.0	1876.8	109	68
MERCED R	1	1024.6	543.6	437.0	366.9	67	36
CHOWCHILLA R/FRESNO R	2	240.0	112.9	52.1	42.5	38	18
SAN JOAQUIN R	8	1137.9	555.0	573.2	656.6	118	58
SAN LUIS CR	3	2130.0	1807.4	1987.4	1804.7	100	85
KINGS R	3	1251.5	626.6	519.8	435.8	70	35

KERN R	1	568.0	173.5	107.6	151.7	87	27
KAWEAH R/TULE R	2	225.3	49.8	38.9	33.9	68	15
TRUCKEE R	4	1029.4	548.0	318.1	226.3	41	22
E WALKER R	1	42.6	28.7	16.4	17.1	60	40
MONO LAKE	3	75.9	35.3	39.3	26.8	76	35
OWENS R	4	253.6	165.8	164.3	162.0	98	64
MOJAVE R	1	73.0	65.0	71.6	69.8	107	96
COLORADO R (1)	4	53590.4	42047.2	39085.5	32112.1	76	60
TOTAL	159	92699.6	67674.4	64355.9	57077.2	84	62

Regional Reservoir Water Storage Summary

Sum of storage at major California reservoirs in (1,000 Acre-Feet)
As of February 28, 2003

Region	Number of Res.	Total Capacity	Historic Average	End-of-month February storage in calendar year:							
				1977	1983	1998	1999	2000	2001	2002	2003
North Coast	7	3,148	2,300	1,256	2,420	2,496	2,497	2,655	2,149	2,215	2,410
SF Bay	14	546	378	196	480	495	460	483	382	351	358
Central Coast	6	970	647	454	905	844	822	823	795	742	627
South Coast	29	1,989	1,464	915	1,582	1,667	1,523	1,472	1,284	1,281	1,104
Sacramento R	43	16,001	11,362	6,201	12,987	12,471	12,681	12,915	10,348	11,462	11,678
San Joaquin R	34	11,439	7,082	2,947	8,328	8,288	8,832	8,819	7,864	7,334	7,107
Tulare Lake	6	2,044	849	453	1,293	1,226	1,129	890	708	666	621
North Lahontan	5	1,072	576	244	833	864	907	888	631	334	243
South Lahontan	8	402	266	163	299	285	280	280	288	275	258
State Total	152	37,614	24,928	12,833	29,132	28,639	29,135	29,230	24,451	24,665	24,411
Percent of Average				51%	116%	114%	116%	117%	98%	98%	98%

Comments:

The 1983 through 2001 storage amounts include New Melones and Warm Springs Reservoirs which began operation after 1977, the new Spicer Meadows Reservoir on the Stanislaus River which began operation in 1989, and Los Vaqueros Reservoir which began operation in 1998.

The 1983 column shows storage in the wettest runoff year this century (1977 was the driest)

Water Storage in Selected California Reservoirs

(1,000 Acre-Feet)

Reservoir	Cap	Hist Avg	End-of-month February storage in calendar year:							
			1977	1983	1998	1999	2000	2001	2002	2003
NORTH COAST:										
<u>Klamath River (Interstate)</u>										
Upper Klamath Lake	873.3	386.9	374.1	419.3	426.7	411.9	406.8	364.6	415.6	421.0
<u>Shasta River</u>										
L. Shastina (Dwinnell)	50.0	33.2	13.4	50.0	48.4	42.7	35.4	18.6	19.8	36.0
<u>Humboldt MWD</u>										
Ruth Lake	51.8	49.7	18.8	57.5	49.5	53.9	51.5	43.7	49.0	48.4
<u>Russian River</u>										
Lake Sonoma	381.0	216.0	0.0	0.0	271.4	244.7	262.3	247.3	244.0	245.1
SAN FRANCISCO BAY:										
<u>Marin MWD</u>										
Soulajule Reservoir	10.6	9.3	0.0	10.6	10.6	10.6	10.6	9.4	10.6	10.6
Nicasio Reservoir	22.4	20.0	0.6	22.4	22.4	22.4	22.4	22.4	22.4	22.4
Kent Lake	32.9	24.2	0.7	26.0	32.9	32.9	32.9	24.2	32.9	32.9
Alpine Lake	8.9	8.3	6.3	8.9	8.9	8.9	8.9	8.9	8.9	8.9
SUM	74.8	61.9	7.6	67.9	74.8	74.8	74.8	64.9	74.8	74.8
<u>East Bay MUD</u>										
San Pablo Reservoir	38.6	32.4	22.1	39.9	38.3	34.0	33.4	33.9	33.9	31.7
Briones Reservoir	60.5	56.8	60.3	60.1	60.7	55.0	54.9	57.9	59.1	57.1
U San Leandro R.	38.0	33.6	18.8	42.2	41.4	38.6	33.3	32.2	27.9	31.3
Lake Chabot	10.4	9.9	9.5	10.6	10.7	9.2	9.8	8.8	9.2	8.8
Pardee Reservoir (1)	198.0	180.0	56.6	186.3	163.1	198.6	193.4	167.8	182.6	166.9
Camanche Res. (1)	417.1	246.1	160.2	296.4	297.9	284.3	302.3	280.8	233.8	305.6
SUM	762.5	558.8	327.5	635.5	612.2	619.6	627.1	581.4	546.5	601.4
<u>San Francisco Cy & Co</u>										
San Andreas Lake	19.0	15.7	18.1	17.3	14.4	17.0	18.5	18.4	15.9	12.4
Crystal Springs Res.	58.4	48.6	42.3	58.5	56.3	54.2	58.8	46.4	50.0	52.2
San Antonio Reservoir	50.5	36.8	23.1	46.5	44.1	48.3	45.2	42.3	48.0	48.5
Calaveras Reservoir	96.9	72.6	29.7	101.9	98.3	89.8	99.2	72.8	30.6	35.6
Hetch Hetchy Res. (1)	360.4	140.1	27.3	259.2	155.6	258.4	216.1	177.6	124.4	235.0
Lake Eleanor (1)	26.1	10.6	1.7	17.4	5.2	21.0	24.2	1.9	5.7	3.4
Cherry Lake (1)	268.0	117.8	68.8	170.5	150.5	224.4	228.1	98.7	214.8	180.7
SUM	879.3	442.1	210.9	671.3	524.4	713.0	690.1	458.1	489.3	567.9
CENTRAL COAST:										
<u>Salinas River</u>										
Santa Margarita Lake	23.0	20.0	11.8	24.9	24.3	19.3	21.9	21.4	17.4	13.2
Lake Nacimiento	377.9	191.1	44.4	287.7	312.6	281.9	280.2	253.2	221.3	212.7
Lake San Antonio	330.0	225.6	224.6	337.1	274.4	294.2	302.1	295.5	297.8	243.1
SUM	730.9	436.7	280.8	649.7	611.4	595.4	604.2	570.1	536.5	469.1
<u>Santa Ynez River</u>										
Gibraltar Reservoir	8.2	7.2	4.8	8.7	7.7	7.2	6.7	7.0	2.3	2.5
Lake Cachuma	190.5	169.2	137.1	205.5	184.4	180.6	171.7	177.5	166.4	123.0
SUM	198.7	176.4	141.9	214.2	192.1	187.8	178.5	184.4	168.7	125.5

Water Storage in Selected California Reservoirs

(1,000 Acre-Feet)

Reservoir	Cap	Hist Avg	End-of-month February storage in calendar year:							
			1977	1983	1998	1999	2000	2001	2002	2003
SOUTH COAST:										
			SC							
<u>Ventura River</u>										
Lake Casitas	254.0	222.9	198.5	251.5	260.3	238.5	219.6	213.2	220.9	194.1
<u>Santa Ana River</u>										
Big Bear Lake	73.0	58.2	36.8	66.1	63.7	68.3	60.2	53.9	46.2	38.3
<u>SWP, South</u>										
Pyramid Lake	171.2	162.5	166.8	161.6	168.8	161.1	168.9	161.0	164.0	164.5
Castaic Lake	323.7	267.7	120.7	320.2	318.9	228.5	291.2	304.8	269.0	248.7
Silverwood Lake (2)	73.0	65.0	46.3	65.6	70.0	58.7	69.2	68.8	71.6	69.8
Lake Perris	131.5	117.3	83.7	118.7	110.1	123.3	120.2	98.6	114.6	114.2
<i>SUM</i>	699.4	612.5	417.5	666.1	667.7	571.6	649.6	633.2	619.3	597.3
SACRAMENTO RIVER:										
			SB							
<u>CVP, North</u>										
Trinity Lake (3)	2447.7	1852.6	1143.1	2133.4	1976.7	2005.8	2149.0	1707.6	1757.4	1939.5
Lake Shasta	4552.0	3341.8	1485.6	3579.4	3567.2	3712.7	3857.4	3496.0	3839.5	3584.3
Whiskeytown Lake	241.1	207.3	202.4	253.2	219.8	205.3	207.9	210.7	204.9	202.1
Folsom Lake	977.0	551.0	271.5	655.0	558.8	495.6	599.0	524.6	602.4	531.4
<i>SUM</i>	8217.8	5952.7	3102.6	6621.0	6322.6	6419.5	6813.3	5938.9	6404.3	6257.3
<u>Orland Project</u>										
East Park Reservoir	50.9	44.4	6.4	52.0	49.2	48.8	49.1	48.8	48.5	48.5
Stony Gorge Reservoir	50.0	41.7	10.3	49.7	37.2	41.6	39.4	40.6	39.8	40.4
<i>SUM</i>	100.9	86.1	16.8	101.7	86.4	90.4	88.6	89.3	88.3	88.9
<u>Cache Creek</u>										
Indian Valley Res.	301.0	195.5	0.3	271.6	267.3	260.6	267.2	227.5	169.3	165.7
Clear Lake	313.0	260.3	0.0	379.7	468.8	309.9	285.5	156.6	267.2	292.4
<i>SUM</i>	614.0	455.9	0.3	651.3	736.1	570.5	552.7	384.1	436.5	458.1
<u>Solano Project</u>										
Lake Berryessa	1600.0	1378.8	995.0	1707.0	1652.6	1610.6	1564.5	1450.5	1494.8	1586.5
<u>Feather River</u>										
Lake Almanor	1143.0	777.4	621.0	918.4	784.7	881.0	933.0	690.5	729.6	786.6
Lake Oroville	3537.6	2570.1	1572.4	2868.8	2713.8	2791.5	2765.8	1842.2	2120.2	2259.7
<i>SUM</i>	4680.6	3347.5	2193.4	3787.2	3498.6	3672.5	3698.7	2532.7	2849.8	3046.3
<u>Yuba County WA</u>										
Bullards Bar Reservoir	966.1	615.4	281.3	722.7	755.3	794.7	782.0	612.8	698.9	733.5
<u>PG and E</u>										
Lake Spaulding System	144.6	51.7	23.9	14.0	45.1	30.4	57.3	23.3	33.2	38.0
<u>Nevada ID</u>										
Jackson Meadows Res	69.2	34.0	3.6	33.6	41.5	43.0	40.4	35.0	31.0	49.4
French Lake	13.8	9.0	0.0	13.8	6.4	8.4	9.8	7.3	7.7	10.5
Bowman Lake	68.5	34.5	24.2	34.7	32.2	31.7	36.9	22.8	25.7	37.0
Scotts Flat Reservoir	48.5	44.3	19.1	48.8	48.5	48.5	48.5	37.9	38.6	44.5
Rollins Reservoir	66.0	59.1	8.9	66.7	66.0	67.1	67.1	60.6	64.5	66.0
<i>SUM</i>	266.0	180.9	55.8	197.6	194.7	198.7	202.8	163.5	167.5	207.4

Water Storage in Selected California Reservoirs

(1,000 Acre-Feet)

Reservoir	Cap	Hist Avg	End-of-month February storage in calendar year:							
			1977	1983	1998	1999	2000	2001	2002	2003
SACRAMENTO RIVER, continued:										
<u>South Sutter WD</u>										
Camp Far West Res.	104.0	97.5	10.9	110.0	107.0	106.6	109.0	71.6	103.8	104.4
<u>Placer CO WA</u>										
French Meadows Res	136.4	68.4	40.9	51.2	70.4	99.0	82.2	50.8	44.0	75.8
Hell Hole Reservoir	207.6	112.4	83.5	117.6	78.9	101.6	123.6	56.8	56.3	138.6
SUM	344.0	180.8	124.4	168.8	149.2	200.6	205.8	107.6	100.3	214.4
<u>Sacramento MUD</u>										
Loon Lake	76.5	29.9	5.3	28.1	20.5	17.4	33.7	15.9	22.9	25.4
Union Valley Reservoir	277.3	146.0	23.6	209.0	173.1	209.3	168.5	41.5	149.3	158.4
Ice House Reservoir	46.0	21.4	5.1	24.7	19.7	19.9	24.8	16.6	19.9	21.9
Slab Creek Reservoir	16.6	14.4	15.6	13.7	12.2	16.8	13.9	15.6	15.6	15.5
SUM	416.4	211.7	49.6	275.4	225.5	263.4	240.9	89.5	207.7	221.2
SAN JOAQUIN RIVER:										
<u>Contra Costa WD</u>										
Los Vaqueros Res.	104.8	82.4	--	--	6.0	100.1	88.4	74.4	75.0	76.9
<u>Sly Park</u>										
Jenkinson Lake	41.0	34.2	8.0	41.5	41.5	41.1	41.2	33.1	34.1	31.7
<u>Calaveras River</u>										
New Hogan Reservoir	317.1	150.3	65.0	193.4	167.9	193.9	205.9	169.5	158.5	141.4
<u>Tri-Dam</u>										
Donnell Reservoir	64.3	15.7	13.4	10.2	6.1	10.0	13.8	5.0	5.5	5.2
Beardsley Lake	97.8	44.0	3.8	75.8	28.2	55.6	33.3	14.1	23.4	21.6
Tulloch Reservoir	67.0	56.3	22.9	58.8	56.1	50.7	55.9	56.5	56.1	56.2
SUM	229.1	116.1	40.1	144.8	90.4	116.3	103.0	75.6	85.0	82.9
<u>CVP, Stanislaus R</u>										
New Melones Res. (4)	2420.0	1407.4	3.5	1880.1	1954.5	1972.4	2008.0	1896.0	1587.4	1426.8
<u>Tuolumne River</u>										
New Don Pedro Res.	2030.0	1411.8	614.2	1730.0	1677.9	1664.5	1735.0	1651.0	1471.2	1414.3
<u>Merced River</u>										
Lake McClure	1024.6	543.6	210.2	729.9	666.9	699.9	727.1	603.4	437.0	366.9
<u>Up. San Joaquin R</u>										
Florence Lake	64.6	1.6	0.3	1.0	1.2	1.3	1.2	1.0	1.1	1.2
Lake Thomas A. Edisor	125.0	38.4	9.9	93.1	17.8	51.0	51.7	40.8	43.3	45.7
Mammoth Pool Res.	122.7	31.5	19.7	49.5	16.7	29.7	52.5	19.7	21.3	17.4
Huntington Lake	89.8	46.1	41.6	72.6	30.8	50.6	39.3	36.7	34.9	35.2
Shaver Lake	135.4	46.0	28.2	94.3	76.3	88.6	95.8	94.4	87.4	93.7
Bass Lake	45.4	27.7	20.0	34.3	26.8	30.7	31.9	25.5	27.8	28.6
Redinger Lake	35.0	23.1	23.8	25.5	15.3	13.5	25.1	24.8	23.2	24.4
SUM	617.9	214.4	143.3	370.3	184.7	265.4	297.5	243.0	239.0	246.1
<u>Friant</u>										
Millerton Lake	520.0	340.6	235.2	423.6	365.8	428.0	423.2	305.9	334.3	410.5
<u>DWR & USBR</u>										
San Luis Res. (CVP)	971.0	798.1	546.4	560.5	963.3	888.4	768.2	1049.8	894.5	902.3
San Luis Res. (SWP)	1062.0	944.0	619.3	985.4	1062.3	1097.3	1057.6	747.4	1030.9	837.1
SUM	2033.0	1742.2	1165.7	1545.8	2025.5	1985.7	1825.8	1797.2	1925.3	1739.4

Water Storage in Selected California Reservoirs (1,000 Acre-Feet)

Reservoir	Cap	Hist Avg	End-of-month February storage in calendar year:							
			1977	1983	1998	1999	2000	2001	2002	2003
TULARE LAKE:										
<u>Kings River</u>										
Courtright Reservoir	123.2	42.5	34.9	117.9	46.1	49.1	61.0	22.0	25.3	29.6
Wishon Reservoir	128.3	36.5	49.1	18.0	36.6	77.1	43.9	52.6	48.4	40.7
Pine Flat Reservoir	1000.0	547.6	275.7	664.6	750.2	728.6	540.2	454.7	446.1	365.5
SUM	1251.5	626.6	359.7	800.5	832.9	854.8	645.1	529.3	519.8	435.8
<u>Kaweah River</u>										
Lake Kaweah	143.0	24.0	16.7	75.5	49.7	10.0	36.4	28.1	17.8	12.4
<u>Tule River</u>										
Lake Success	82.3	25.8	11.8	60.1	59.5	19.9	30.6	20.1	21.1	21.6
<u>Kern River</u>										
Lake Isabella	568.0	173.5	65.2	357.0	283.9	244.9	178.8	130.9	107.6	151.7
NORTH LAHONTAN:										
<u>Truckee River</u>										
Lake Tahoe	732.0	386.2	163.2	565.0	610.5	620.4	627.8	400.2	146.9	86.2
Prosser Creek Res.	29.8	9.1	0.1	9.4	8.8	9.9	9.9	9.9	8.8	9.3
Stampede Reservoir	226.5	135.2	39.7	202.6	192.4	204.2	202.5	191.0	153.8	114.6
Boca Reservoir	41.1	17.5	27.3	24.3	20.2	32.9	19.6	10.3	8.6	16.2
SUM	1029.4	548.0	230.3	801.3	831.9	867.4	859.7	611.4	318.1	226.3
<u>East Walker River</u>										
Bridgeport Reservoir	42.6	28.7	13.8	32.6	33.0	40.5	28.8	19.9	16.4	17.1
SOUTH LAHONTAN:										
<u>Los Angeles DWP</u>										
Grant Lake	47.6	27.5	8.9	37.0	40.3	40.5	37.9	39.5	31.5	19.7
Lake Crowley	183.2	126.2	53.7	139.2	127.1	136.1	125.0	132.6	130.5	122.9
Tinemaha Reservoir	16.3	2.7	6.5	5.8	2.5	2.8	2.7	2.2	0.4	2.8
Haiwee Reservoir	41.2	32.9	38.0	40.5	32.9	29.7	32.3	34.1	29.7	33.1
SUM	288.3	189.2	107.1	222.5	202.8	209.0	197.9	208.4	192.1	178.5
COLORADO RIVER:										
<u>Colorado River</u>										
Lake Powell	25002.0	19028.2	17980.0	22230.0	20630.0	21088.2	20948.2	19023.4	17200.0	12833.2
Lake Mead	26159.0	20793.0	21844.0	24427.0	25014.0	24899.0	24974.0	22430.0	19682.0	16978.0
Lake Mohave	1810.0	1679.4	1670.0	1644.7	1657.0	1677.1	1663.6	1657.3	1643.0	1728.0
Lake Havasu	619.4	546.6	550.3	552.6	574.3	521.3	538.3	593.0	560.5	572.9
SUM	53590.4	42047.2	42044.3	48854.3	47875.3	48185.6	48124.1	43703.7	39085.5	32112.1

Footnotes:

- 1) Located in Sierra Nevada (San Joaquin Basin drainage)
- 2) Located in South Lahontan Basin drainage
- 3) Located in North Coast drainage
- 4) 1977 value is for old Melones Reservoir

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